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# **Types of Sources**

- Data Source
  - Databases, public domain data repositories, sites for literature search
- Service Source
  - Analysis and data processing programs
- Storage Source
  - Data caching and on-demand database creation
- Compute Source
  - Computational sources to execute services





## **Some Common Services**

- Access Control
- Metadata definition management
- Data Management
- Advertisement and discovery
- Data caching and on-demand database creation
- Query Execution
- Naming and Translation services
  - ID resolution (a gene is called A by one researcher and B by another)
  - translation from vocabulary to vocabulary or from one vocabulary to a common vocabulary.
- Provenance tracking and management
- Distributed workflow management





# Some comments from ICR group

### Security

- Important but separate issue.
- Important for some data providers, but not others

#### Workflow

Not a priority.

#### Performance

- The faster the better but not an issue.
- Fast ID resolution was brought up
- Performance Criteria has not yet been established





## Some comments from ICR group

- Provenance
  - Difficult because you need to define the context.
  - Probably not a attribute level.
- Prototype
  - It should include Query, Analysis and Annotation.
  - First data retrieval, then ID resolution and then track version.
- Dynamic data source schema.
- Integrate public domain data source in the grid.





### Software feature list

### Preliminary results

	MSKCC	Wistar (L)	Wistar (J)	Washington	Upenn	Georgetown	UNC
Query caBIG resources	X	x	X	x	X	X	X
Update datasources		x					
Advertise data source		x	x	X	x	x	
Advertise anal. Tool		x	x				х
Discover caBIG resources		x	x	X		х	х
Notification of resource update		x	x		X	x	х
Query literature			x	X			
Annotation			x	X			
Analysis tools		x	x	x			х
ID Resolution	X				x		х
Data mapping		x		x			
Metadata (*)	X	x	x	x	x	x	х
WorkFlow analysis tools		x		x			
Quality control		x					
Security				x	X		
Performance							

<sup>\*</sup> Includes version tracking, provenance, CDE

